

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. – 15. (Cancelled).

16. (Currently Amended) A method for treating a mammal suffering from a localized bacterial infection or a bacterial-related disease comprising administering a therapeutically effective amount of a composition comprising at least one ~~Colony Stimulating Factor (CSF)~~ granulocyte-macrophage-colony stimulating factor (GM-CSF) polypeptide or fragment or derivative thereof having essentially the biological function and activity of the ~~CSF~~ GM-CSF.

17. (Previously Presented) The method of claim 16, wherein the bacterial infection or bacterial-related disease is selected from periodontal disease or sinusitis.

18. (Previously Presented) The method of claim 17, wherein the periodontal disease is gingivitis or periodontitis.

19. – 20. (Cancelled).

21. (Previously Presented) The method of claim 16, wherein the composition is suitable for administration via injection through the mucosal lining of the gingival or by application in a periodontal pocket.

22. (Currently Amended) The method of claim 16, wherein the ~~CSF~~ GM-CSF or fragment or derivative thereof is present in the composition in a unit dosage amount of 5 µg to 800 µg.

23. (Previously Presented) The method of claim 22, wherein the unit dosage amount is 50 μ g to 100 μ g.
24. (Previously Presented) The method of claim 16, wherein the composition is administered at intervals ranging from once a day to once every third week.
25. (Previously Presented) The method of claim 16, wherein the composition is administered a total of 1 to 3 times for a period of one week.
26. (Previously Presented) The method of claim 16, wherein the composition comprises a therapeutically effective amount of at least one other active ingredient.
27. (Currently Amended) The method of claim 16, wherein the ~~CSF~~ GM-CSF or fragment or derivative thereof is produced by means of a recombinant expression system.
28. (Cancelled).
29. (Previously Presented) A composition for treating a localized bacterial infection or bacterial related disease comprising a therapeutically effective amount of a granulocyte-macrophage-colony stimulating factor (GM-CSF) polypeptide or fragment or derivative thereof.